

W.L. Brown, Jr. COLLECTION

Reprinted from JOURNAL OF THE NEW YORK ENTOMOLOGICAL SOCIETY,
Vol. XLII, September, 1934.

A LIST OF THE ANTS OF SOUTH CAROLINA

BY M. R. SMITH, AGENT, U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY, STATE COLLEGE, MISS.

In a previous paper (Ent. News, Vol. 29, pp. 17-29, 1918) I listed 44 species of ants as occurring in South Carolina. This article was based mostly on collections that I had made in the northwestern part of the State (Clemson College and vicinity) during the years 1915 and 1916.

Since the appearance of that paper I have received numerous specimens for determination and am listing herein all of the species known to occur in the State at present. A large number of these were collected by Mr. D. E. Read incidental to the scouting he did in the state for the Argentine ant, while employed by the United States Department of Agriculture, Bureau of Entomology. Specimens have also been sent me by State officials and friends. Those who have collected specimens on which this paper is based are: D. E. Read, A. F. Conradi, Franklin Sherman, Jr., J. A. Berly, O. L. Cartwright, M. H. Brunson, David Dunavan, W. A. Thomas, J. E. Webb, P. K. Harrison, W. C. Nettles, T. M. Williams, E. R. Barber, A. Lutken, H. L. Stoddard, Frances McAllister, and the writer.

It is reasonably certain that some of the ants occurring in the State are unrecorded here. Many species in adjoining States doubtless will eventually be collected in South Carolina. This will be especially true for species belonging to the following genera: *Eciton* (*Acamatus*); *Pheidole*, *Leptothorax*, *Strumigenys*, *Lasius*, and *Camponotus*.

Family FORMICIDÆ

Subfamily Ponerinae

1. *Stigmatomma pallipes* Hald. Walhalla (M. R. S.).
2. *Proceratium silaceum* ?Roger. Charleston, Adams Run (D. E. R.).
3. *Sysphincta pergandei* Emery. Clemson College (M. R. S.).
One of the rarest of our North American ants.

4. *Ponera trigona* var. *opacior* Forel. Walhalla, Clemson College (M. R. S.); Westminster, Calhoun, Prosperity, Scranton, Charleston (D. E. R.). One of the most common species of *Ponera* in the Southern States.
5. *Ponera opaciceps* Mayr. Jacksonboro (D. E. R.).
6. *Ponera inexorata* Whlr. Walhalla (M. R. S.). Formerly described from Texas, this species is now known to range as far eastward as South Carolina.

Dorylinae

7. *Eciton (Acamatus) opacithorax* Emery. Walhalla, Clemson College (M. R. S.).
8. *Eciton (Acamatus) carolinensis* Emery. Spartanburg (D. E. R.). This species is apt to be mistaken for the one above.

Pseudomyrminae

9. *Pseudomyrma flavidula* F. Smith. Greeleyville, Myrtle Beach, Summerville, Dorchester, Dillon (D. E. R.).
10. *Pseudomyrma brunnea* F. Smith. Summerville, Pinewood (D. E. R.) This species may easily be recognized by its color.

Myrmicinae

11. *Monomorium minimum* Buckley. Walhalla, Clemson College (M. R. S.); Florence (O. L. C.); Greer, Fountain Inn, Anderson, Laurens, Calhoun Falls, Greenwood, Woodruff, Spartanburg, Inman, Cowpens, Blacksburg, Cherokee Falls, Johnson, North Augusta, Batesburg, Leesville, Lexington, Columbia, Camden, Sumter, Pinewood, Elliott, Lancaster, Chester, Great Falls, Scranton, Lake City, Johnsonville, Kingstree, Lane, North, Ehrhardt, Port Royal, Charleston, Moncks Corner, Sullivans Island, Conway, Myrtle Beach, McCall (D. E. R.). This tiny black ant is widely distributed not only over South Carolina but over a large part of North America. It is an important house-infesting form.
12. *Monomorium pharaonis* L. Salters Depot (M. H. B.); Calhoun, Clemson College (D. D.); Greenwood, Ware Shoals,

Lexington, Bishopville, Camden, Winnsboro, Kingstree, St. Matthews, Blackville, Allendale, Ridgeville, Beaufort, Ridgeland, Charleston, Meggetts, St. Stephens, Mt. Pleasant, Georgetown, Conway, Marion, Bennettsville, Easley, (D. E. R.). Pharaoh's ant is a serious pest wherever the species occurs. It has become very widely distributed by commerce.

13. *Solenopsis molesta* Say. Clemson College (D. D.); Abbeville, Due West, Spartanburg, Charleston (D. E. R.); Marion (W. A. T.). The tiny thief ant, one of the smallest of the house-infesting ants, shows a decided fondness for meats, oil, nuts, etc.
14. *Solenopsis pergandei* Forel. Walhalla, Clemson College (M. R. S.).
15. *Solenopsis geminata* Fabr. Summerville (J. A. B.); Marion (W. A. T.); Meyersmere, Sumter, Orangeburg, Port Royal (D. E. R.).
16. *Solenopsis geminata* subsp. *rufa* Jerdon. North Augusta, Graniteville, Columbia, Kingstree, Manning, Denmark, Allendale, Walterboro, Beaufort, Jacksonboro, Georgetown (D. E. R.).
17. *Solenopsis globularia* subsp. *littoralis* Creighton. Charleston (D. E. R.). This interesting subspecies is now known to occur from Mississippi eastward to South Carolina.
18. *Solenopsis xyloni* McCook. Abbeville, Pinewood (D. E. R.). This species of fire ant, which is so common in the Gulf States, certainly ranges as far north in South Carolina as the 34th parallel of latitude, or slightly above, in the western part of the State.
19. *Pheidole morrisi* Forel. Marion (W. A. T.); Pawley's Island (O. L. C.); Due West, Leesville, Spartanburg (D. E. R.).
20. *Pheidole dentata* Mayr. Marion (W. A. T.); Walhalla, Clemson College (M. R. S.); Liberty, Spartanburg, Newberry, Edgefield, Leesville, Columbia, Bishopville, Bluffton (D. E. R.).

Pheidole dentata is perhaps the commonest species of *Pheidole* in the State, unless it be *vinelandica*.

21. *Pheidole crassicornis* Emery. Walhalla, Clemson College (M. R. S.); Sumter (D. E. R.).
22. *Pheidole tysoni* Forel. Walhalla (M. R. S.).
23. *Pheidole metallescens* subsp. *splendidula* Whlr. Clemson College (J. E. W.); Florence (O. L. C.); Seneca, Calhoun, Easley, Fountain Inn, Greenwood, Spartanburg, Gaffney, Aiken, Leesville, Columbia, Cameron, Charleston (D. E. R.). Workers are easily recognized by the beautiful violaceous reflections of their bodies.
24. *Myrmecina graminicola* subsp. *americana* Emery. Walhalla, Pendleton (M. R. S.).
25. *Crematogaster lineolata* Say. Clemson College (J. E. W.); Walhalla (M. R. S.); Columbia (D. E. R.).
26. *Crematogaster lineolata* var. *lutescens* Emery. Clemson College (M. R. S.).
27. *Crematogaster laeviuscula* Mayr. Florence (O. L. C.); Calhoun, Piedmont, Abbeville, Batesburg, Sumter, Gaffney, Blacksburg, Edgefield, Lancaster, Charleston, Marion (D. E. R.).
28. *Crematogaster laeviuscula* var. *clara* Emery. Abbeville (D. E. R.).
29. *Crematogaster ashmeadi* Mayr. Fairfax (P. K. H.); Westminster, "The Tunnel" near Walhalla (J. E. W.); Liberty, Fountain Inn, Belton, Spartanburg, Gaffney, Union, Buffalo, Johnson, Pinewood, Rion (D. E. R.).
30. *Crematogaster victima* subsp. *missouriensis* Pergande. Clemson College (M. R. S.).
31. *Crematogaster minutissima* Mayr. Columbia (D. E. R.).
32. *Crematogaster opaca depilis* var. *punctulata* Emery. Rocky Bottom (W. C. N.).
33. *Aphaenogaster mariae* Forel. Walhalla (M. R. S.). A rare species which can easily be recognized by the prominent longitudinal striations at the base of the worker's gaster.
34. *Aphaenogaster treatæ* Forel. Walhalla, Clemson College (M. R. S.); Columbia (D. E. R.). The prominent lobe at the base of the antennal scape clearly distinguishes the worker of this species.

35. *Aphaenogaster lamellidens* Mayr. Walhalla, Clemson College (J. E. W.).
36. *Aphaenogaster lamellidens* var. *nigripes* M. R. Smith. Seneca, Dillon (D. E. R.); Clemson College (J. E. W.); Pendleton (M. R. S.).
37. *Aphaenogaster fulva* Roger. Walhalla (M. R. S.); Pickens, Gaffney (D. E. R.).
38. *Aphaenogaster fulva aquia* var. *picea* Emery. Kingstree (D. E. R.).
39. *Aphaenogaster texana* var. *carolinensis* Whlr. Clemson College (J. E. W.); Walhalla (M. R. S.); Spartanburg, Cherokee Falls (D. E. R.).
40. *Aphaenogaster texana* var. *furvescens* Whlr. Adams Run (D. E. R.).
41. *Aphaenogaster texana* subsp. *macrospina* M. R. Smith. Navy Yard, at Charleston (D. E. R.). This subspecies was only recently described from the specimens taken by Mr. Read at the above locality.
42. *Pogonomyrmex badius* Latr. North Augusta, Florence (O. L. C.). The Florida harvesting ant is the only species of this genus known to occur in the State. The workers give a very painful sting.
43. *Myrmica punctiventris* subsp. *pinetorum* Whlr. Clemson College (M. R. S.). The workers and queens are characterized by the coarse punctations at the base of the gaster.
44. *Myrmica scabrinodis* subsp. or var. Caesar's Head (M. R. S.).
45. *Leptothorax fortinodis* Mayr. Clemson College (M. R. S.).
46. *Leptothorax fortinodis* var. *melanoticus* Whlr. Clemson College (J. E. W.); Barnwell (D. E. R.).
47. *Leptothorax curvispinosus* Mayr. Clemson College (M. R. S.); Kingstree (D. E. R.). One of the commonest species of *Leptothorax* in the State.
48. *Leptothorax pergandei* Emery. Due West, Landrum (D. E. R.). This and the following species usually nest in the soil.
49. *Leptothorax (Dichothorax) pergandei* subsp. *floridanus* Emery. Clemson College (J. E. W.).

50. *Tetramorium guineense* Fabr. Laurens, Edgefield, Aiken, Batesburg, Kingstree, Yemassee, Charleston, St. Stephens, Georgetown (D. E. R.). An imported species which is now rather widely and sporadically distributed throughout the Southern States.
51. *Tetramorium cæspitum* L. Clinton, Charleston (D. E. R.).
52. *Tetramorium (Triglyphothrix) striatidens* Emery. Beaufort (D. E. R.). Formerly known from only one locality in the United States, this species has since been found in Alabama, Florida, and Mississippi.
53. *Strumigenys louisianæ* Roger. Charleston (D. E. R.). This probably represents one of the several species of *Strumigenys* that occur in the State.
54. *Trachymyrmex septentrionalis* McCook. Clemson College (M. R. S.); Pontiac (O. L. C.). The only species of fungus ant yet recorded from the State.

Dolichoderinae

55. *Dolichoderus (Hypoclinea) mariæ* Forel. Clemson College (M. R. S.); Rocky Bottoms (J. E. W.). This and all the following species of *Dolichoderus* are honeydew-loving forms, with arboreal habits.
56. *Dolichoderus (Hypoclinea) taschenbergi* Mayr. Old Fort Prince George, near Pickens (O. L. C.). A very beautiful jet black ant.
57. *Dolichoderus (Hypoclinea) taschenbergi* var. *aterrima* Whlr. Clemson College (M. R. S.).
58. *Dolichoderus (Hypoclinea) plagiatus* Mayr. Clemson College (M. R. S.).
59. *Dolichoderus (Hypoclinea) plagiatus* subsp. *pustulatus* Mayr. Clemson College (M. R. S.).
60. *Dolichoderus (Hypoclinea) plagiatus pustulatus* var. *beutenmuelleri* Whlr. Clemson College (M. R. S.).
61. *Dorymyrmex pyramicus* Roger. Clemson College (J. E. W.); Pontiac (O. L. C.); Gray Court, Newberry, Bethune, Clio (D. E. R.).
62. *Dorymyrmex pyramicus* var. *flavus* Pergande. Clemson College (M. R. S.); Florence (O. L. C.); Greenwood,

- Trenton, Sumter, Elliott, Johnsonville, Denmark, Bamberg, Fairfax, Hampton, Charleston (D. E. R.). One of the most common ants in the State. Usually constructs crater-shaped nests in the soil in sunny spots.
63. *Dorymyrmex pyramicus* var. *niger* Pergande. Marion (W. A. T.).
64. *Tapinoma sessile* Say. Clemson College (M. R. S.); Greenville, Piedmont, Gray Court, Gaffney (D. E. R.). The odorous house ant is the only species of this genus known to occur in the State.
65. *Iridomyrmex pruinosus* Roger. Walhalla (M. R. S.); Pontiac (O. L. C.).
66. *Iridomyrmex pruinosus* var. *analis* Andre. (Greenville (T. M. W.): Clemson College (J. E. W.); Florence (O. L. C.); Calhoun, Simpsonville, Spartanburg, Lyman, Inman (D. E. R.).
67. *Iridomyrmex humilis* Mayr. Charleston (E. R. B.); Spartanburg (M. H. B.); Clifton (A. L.); Gaffney (M. H. B.); Anderson, Calhoun Mills at Calhoun Falls, Greenville, Greer, Fountain Inn, Glenn Ayres Floral Company near Spartanburg, Cowpens, Converse, Eastover, Sumter, Bishopville, Kershaw, Lancaster, York, Lamar, Palmetto Floral Company near Charleston, St. George, Dillon, Greenville Floral Company near Greenville (D. E. R.). The Argentine ant is now known to occur in at least 23 places in the State.
68. *Brachymyrmex heeri* subsp. *depilis* Emery. Columbia, Charleston (D. E. R.).
69. *Prenolepis imparis* Say. Clemson College (D. D.); "The Tunnel" near Walhalla (D. D.); Florence (O. L. C.); Pickens (D. E. R.). There is probably no other North American ant which can be active under such low degrees of temperature as this ant.
70. *Prenolepis imparis* var. *testacea* Emery. Clemson College (D. D.); Walhalla (D. D.); Spartanburg, Gaffney (D. E. R.). A color variety of the preceding species. This ant, and *imparis* also, infests houses.

71. *Prenolepis imparis* var. *minuta* Emery. Clemson College (M. R. S.).
72. *Prenolepis* (*Nylanderia*) *parvula* Mayr. Clemson College (M. R. S.).
73. *Paratrechina longicornis* Latr. Greenwood, Batesburg, Columbia, Charleston (D. E. R.). The crazy ant does not seem to be very widely distributed in the State but wherever it occurs it is a house pest of considerable importance.
74. *Paratrechina bourbonica* Forel var. Summerville, Charleston (D. E. R.).
75. *Lasius niger* var. *neoniger* Emery. Clemson College (D. D.); Rocky Bottom (J. E. W.); Easley, Greenville, Williamstown, Calhoun Falls, Greenwood, Spartanburg, Gaffney, Blacksburg, Buffalo, Newberry, Batesburg, Lexington, Sumter, Camden, Conway, Winnsboro (D. E. R.).
76. *Lasius niger* var. *americana* Emery. Gaffney (D. E. R.); Clemson College (M. R. S.).
77. *Lasius* (*Acanthomyops*) *interjectus* Mayr. Clemson College (M. R. S.); Pickens, Spartanburg (D. E. R.). The largest species of the *Acanthomyops* group, all species of which can be recognized by their pleasant citronella-like odor.
78. *Lasius* (*Acanthomyops*) *claviger* Roger. Clemson College (D. D.).
79. *Lasius* (*Acanthomyops*) *latipes* Walsh. Scranton (D. E. R.).
80. *Formica sanguinea* subsp. *subintegra* Emery. Clemson College (M. R. S.). The only known representative in the State of the slave-making ants of the *sanguinea* group.
81. *Formica truncicola* subsp. *integra* Nyl. Clemson College (M. R. S.); "The Tunnel" near Walhalla (O. L. C.).
82. *Formica pallide-fulva* Latr. Clemson College (M. R. S.).
83. *Formica pallide-fulva* subsp. *schaufussi* var. *dolosa* Whlr. Walhalla (M. R. S.); Clemson College (J. E. W.); Seneca, Inman, Blacksburg (D. E. R.).
84. *Formica fusca* var. *subsericea* Say. Clemson College (M. R. S.); Greenville, Spartanburg (D. E. R.).
85. *Polyergus rufescens* subsp. *lucidus* Mayr. Whitewater Falls (M. R. S.). The above locality probably represents the

most southern point in which the shining slave maker occurs in the Appalachians.

86. *Camponotus castaneus* Latr. Clemson College (M. R. S.); Florence (O. L. C.); Pinewood (D. E. R.).
87. *Camponotus castaneus* subsp. *americanus* Mayr. Clemson College, Walhalla (M. R. S.); Abbeville, Spartanburg (D. E. R.).
88. *Camponotus herculeanus* subsp. *pennsylvanicus* DeGeer. Clemson College (M. R. S.); Walhalla (J. E. W.); Rocky Bottom (W. C. N.); Florence (O. L. C.); Pelzer, Conway (D. E. R.). This is the common black carpenter ant, which is fond of nesting in logs, stumps, trees, etc.
89. *Camponotus caryæ* Fitch. Clemson College (J. E. W.); Westminster, Spartanburg, Batesburg, Camden, Ridgeland, Conway, McCall (D. E. R.).
90. *Camponotus caryæ* subsp. *rasilis* Whlr. Pawleys Island (O. L. C.); Columbia (D. E. R.).
91. *Camponotus caryæ rasilis* var. *decipiens* Emery. Clemson College (F. M.); Pickens, Anderson, Laurens, Spartanburg, Inman, Cowpens, Union, Edgefield, Johnson (D. E. R.).
92. *Camponotus caryæ rasilis* var. *pavidus* Whlr. Due West (D. E. R.).
93. *Camponotus abdominalis* subsp. *floridanus* Buckley. Hilton Head Island (H. L. S.). This ant, perhaps the commonest species of *Camponotus* in Florida, certainly ranges as far north as North Carolina.
94. *Camponotus (Colobopsis) mississippiensis* M. R. Smith. Adams Run (D. E. R.). In Mississippi this species generally nests in the twigs of white ash.
95. *Camponotus (Colobopsis) pylartes* subsp. *fraxinicola* M. R. Smith. Charleston (D. L.); Williamston (D. E. R.).
96. *Camponotus (Colobopsis) obliquus* M. R. Smith. Spartanburg (D. E. R.).